PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0851-0331
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
respond to a collection of information unless it contains a valid OMB control number.

Complete if Known Under the Paperwork Reduction Act of 1995, no Substitute for form 1449/PTO **Application Number** 09/886,959 **INFORMATION DISCLOSURE Filing Date** June 20, 2001 STATEMENT BY APPLICANT **First Named Inventor** Algirdas Avizienis Art Unit 2114 (Use as many sheets as necessary) **Examiner Name** Bryce P. Bonzo Technology Center 260 **Attorney Docket Number** xAAA-02 3 Sheet

		NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²			
	1	INTEL CORP., Intel's Quality System Databook (January 1998), Order No. 210997-007				
BP 13	2	A. AVIZIENIS and Y. HE, "Microprocessor entomology: A taxonomy of design faults in COTS microprocessors", in J. Rushby and [contin'd in next block]				
		C. B. Weinstock, editors, Dependable Computing for Critical Applications 7, IEEE Computer Society Press (1999)				
	3	A. AVIZIENIS and J. P. J. KELLY, "Fault tolerance by design diversity: concepts and experiments", Computer, 17(8):67-80 (August 1984)				
	4	A. AVIZIENIS, "The N-version approach to fault-tolerant software", IEEE Trans. Software Eng., SE11(12):1491-1501 (December 1985)				
	5	M. K. JOSEPH and A. AVIZIENIS, "Software fault tolerance and computer security: A shared problem", in Proc. of the [contin'd in next block]				
		Annual National Joint Conference and Tutorial on Software Quality and Reliability, pages 428-36 (March 1989)				
	6	Y. HE, An Investigation of Commercial Off-the-Shelf (COTS) Based Fault Tolerance, PhD thesis, Computer Science [contin'd in next block]				
		Department, University of California, Los Angeles (September 1999)				
	7	[Please see next sheet.]				

Examiner Signature Bux P. Duy	Date Considered	u/	12/	NU	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

considered. Include copy of this form with next cotorfunication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

AUE 13 2004 E

PTO/SB/08B (08-03)
Approved for use through 07/31/2008. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
to a collection of information unless it contains a valid OMB control number.

Under the Paperwork Reduction Act of 1995, no pers Complete if Known Substitute for form 1449/PTO Application Number 09/886,959 INFORMATION DISCLOSURE Filing Date June 20, 2001 STATEMENT BY APPLICANT First Named Inventor Algirdas Avizienis Art Unit 2114 (Use as many sheets as necessary) **Examiner Name** Bryce P. Bonzo **Attorney Docket Number** xAAA-02 Sheet 3 Technology Center 2600

			Toomoog, conc	
			NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*		Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		7	Y. HE and A. AVIZIENIS, "Assessment of the applicability of COTS microprocessors in high-confidence computing [contin'd in next block)	
 -			systems: A case study", in Proceedings of ICDSN 2000 (June 2000)	
_		8	INTEL CORP., The Pentium II Xeon Processor Server Platform System Management Guide (June 1998), Order No. 243835 001	
		9	A. AVIZIENIS, G. C. GILLEY, F. P. MATHUR, D. A. RENNELS, J. A. ROHR, and D. K. RUBIN. "The STAR (Self- [contin'd in next block]	
			Testing-and-Repairing) computer: An investigation of the theory and practice of fault-tolerant computer design", IEEE Trans. [contin'd again]	
	- · · · - ·		Comp., C 20(11):1312-21 (November 1971)	
		10	T. B. SMITH, "Fault-tolerant clocking system", in Digest of FTCS-11, pages 262-64 (June 1981)	
		11	INTEL CORP., P6 Family Of Processors Hardware Developer's Manual (September 1998), Order No. 244001 001	
		12	A. AVIZIENIS, "Toward systematic design of fault-tolerant systems", Computer, 30(4):51-58 (April 1997)	-
1		13	[Please see next sheet.]	

	^ -				7		
Evernines				Date	/ نہ ا	15 /	
Examiner	\ <u>Y</u>		1	Commissioned	1 1//	I / I	ועמ
Signature	(t)	$\Lambda V = 3/31/6$	ام ما	Considered	1 11/2		ν_{\perp}
Signature	Y /\	<u> </u>	- 1/. K			11- 1-18	armoned and not

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation of not in conformance and not considered. Include copy of this form with next communication to applicant.

considered. Include copy of this term with next communication to applicant.

1 Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO This collection of information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including to process) an application. Complete this form to the USPTO. Time will vary depending upon the Individual case. Any comments on the gathering, preparing, and submitting the complete dapplication form to the USPTO. Time will vary depending upon the Individual case. Any comments on the gathering, preparing, and submitting the complete dapplication form to the USPTO. Time will vary depending upon the Individual case. Any comments on the gathering, preparing, and submitting the complete dapplication form to the USPTO. Time will vary depending upon the Individual case. Any comments on the gathering, preparing, and submitting the complete dapplication form to the USPTO. Time will vary depending upon the Individual case. Any comments on the gathering, preparing, and submitting the complete dapplication form to the USPTO. Time will vary depending upon the Individual case. Any comments on the gathering, preparing, and submitting the complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and the USPTO. The will be prepared to the process of the USPTO. The will be prepared to the process of the process of the process of the USPTO. The proces

PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0651-0031 3 2004 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE re required to respond to a collection of information unless it contains a valid OMB control number. Under the Paperwork Reducted Complete if Known Substitute for form 1449/PTO **Application Number** 09/886,959 Filing Date INFORMATION DISCLOSURE June 20, 2001 STATEMENT BY APPLICANT First Named Inventor Algirdas Avizienis Art Unit 2114 (Use as many sheets as necessary) Examiner Name Bryce P. Bonzo **Attorney Docket Number** Sheet 3 xAAA-02

	NON PATENT LITERATURE DOCUMENTS Line live name of the author (in CARITAL LETTERS) title of the article (when appropriate) title of	Cite	Examiner			
T²	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.					
	"Special report: Sending astronauts to Mars", Scientific American, 282 (3):40-63 (March 2000)	13	BPB			
	NASA, "Conference on enabling technology and required scientific developments for interstellar missions", OSS [contin'd in next block]	14	Ø			
	Advanced Concepts Newsletter, page 3 (March 1999)		4			
	RECEIVED					
	AUG 1 7 2004					
	Technology Center 2600					
	·					

Examiner Signature	Brup Day	Date Considered	12/14	•

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation/if not in conformance and not

Considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the genering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.